	Running head: THEORY OF MIND PREDICTORS 1
1	Neighborhood and Social Network Predictors of Preschoolers' Theory of Mind Development
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Author Note

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Abstract

Research has indicated that children develop the ability to understand and apply others' 10 mental states, emotions, and knowledge through a skill known as Theory of Mind. However, 11 little is known about how this skill initially arises. This study investigated how a child's 12 home and neighborhood environment may influence development of Theory of Mind. Such 13 factors include parental perceptions of their children's social understandings, the makeup of 14 children's neighborhood, and the size and makeup of their social network. This research can 15 provide a better understanding of how children acquire Theory of Mind abilities and what 16 kind of environments either promote or hinder this development. Counter to our hypothesis, 17 neighborhood violent crime rate was positively and significantly correlated with children's 18 performance on the parent-report measure, indicating that children in areas that experience 19 more violent crime may actually have better developed Theory of Mind. As hypothesized, age and children's exposure to languages besides English were also significantly correlated with Theory of Mind. As predicted, Network Linguistic Entropy was correlated with Theory 22 of Mind with marginal significance. However, it is also possible that factors within the home or characteristics of the child themselves may be the deciding factors in when Theory of Mind arises.

Keywords: Theory of Mind, Social Network, Neighborhood

Word count: X

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Neighborhood and Social Network Predictors of Preschoolers' Theory of Mind Development

29 Introduction

Theory of Mind development marks a crucial stage in which children gain the ability to see the world from another's perspective. Perner and Lang (1999) define Theory of Mind as "the ability to ascribe mental states, such as desires, beliefs, feelings and intentions to oneself and to other people." This skill is understood to take shape between three and five years of age among typically-developing children (Perner & Lang, 1999). Relevant Theory of Mind skills include the ability to understand the knowledge—or lack thereof—of another person as well as their desires and emotions even when they differ from one's own. For example, a child who has developed Theory of Mind knows that someone may favor a snack they would not pick for themselves. Wellman and Liu (2004) created a scaled set of tasks meant to measure different aspects of Theory of Mind. With this scale, they observed a highly predictable sequence of Theory of Mind task success and hope to better understand individual differences in the acquisition of Theory of Mind based on children's early experiences and environments.

Currently, researchers have identified several predictors of when children develop
Theory of Mind. Perhaps the most established predictor of Theory of Mind development
among children is age. At the age of three, the majority of children fail False Belief tasks
whereas most four year olds pass (Perner & Lang, 1999). In a meta-analysis, C. Wellman H.
M. (2001) found a significant main effect of age on False Belief task performance where
chances of being correct more than double with each year of age between 30 and 100 months
of age. While not the only task used to evaluate children's Theory of Mind ability, False
Belief is a popular choice among researchers (Wellman & Liu, 2004).

Number of siblings and birth order are also well-addressed correlates of Theory of Mind
performance. Several studies have found a positive correlation between the number of
siblings and Theory of Mind (Cutting, 1999; Lewis, 1996; Perner, Ruffman, & Leekam, 1994).
McAlister (2013) found having any child-aged sibling was correlated with children's overall

- Theory of Mind. This was more pronounced among youngest children, suggesting that birth order is also correlated with Theory of Mind (Lewis, 1996; McAlister, 2013). Other previously addressed correlates of Theory of Mind include parental education, income, and bilingualism. All three of these variables have been found to be positively correlated with Theory of Mind (Cutting, 1999; Yu, Kovelman, & Wellman, 2021).
- Several studies have also explored the connection between other social factors and
 Theory of Mind performance. Lewis (1996) also found that the number of kin who lived in
 close proximity to the child also had a significant influence on Theory of Mind performance
 according to a logistic regression. Suway (2012) determined that negative peer interactions
 predicted lowered Theory of Mind task performance. These findings open the door to
 exploration of children's social networks rather than just their siblings in understanding
 Theory of Mind development.
- In order to expand our understanding of predictors of Theory of Mind, it is helpful to 66 consider better understood aspects of development, such as executive functioning, and their 67 relationship to Theory of Mind. Around four years of age, children are developing both their 68 understanding of Theory of Mind—particularly false beliefs—and their executive functioning (Perner & Lang, 1999). Sabbagh and Shiverick (2006) found that these two skills were positively correlated with one another during this time period. With age partialled out, Frye 71 (1995) found improvement on Theory of Mind tasks was correlated with performance on a rule-based sorting task involving the executive functioning skill of self-control. In a 73 meta-analysis of studies assessing Theory of Mind and executive functioning, Perner and Lang (1999) found a complementary relationship between these two abilities, also with age partialled out. They suggest that perhaps success at Theory of Mind tasks requires executive functioning skills. Because of this established link between executive functioning and Theory of Mind, we have reason to believe that environmental factors that have a relationship with executive functioning development have a similar relationship with Theory of Mind

80 development.

Research has also identified lower executive functioning among children exposed to 81 familial trauma and violence in which they are not the immediate victim (DePrince, 2009). However, there is also evidence that trauma-exposure outside of the household is connected to lower executive functioning where trauma-exposure can include events such as "a traffic accident, witnessing domestic violence or a shooting" (Op den Kelder, 2018). Among adults, as perceived neighborhood stress increased—such as knowledge of violent crime occurrences, diminished feelings of safety, and distrust of neighbors—executive functioning scores decreased (Muñoz, 2020). Poverty has also been well-studied in its relationship to social-cognitive development. Children exposed to poverty perform worse on executive functioning tasks relative to the amount of time they live in poverty (Finegood, 2017; Raver, 2013). These findings open a line of questioning into whether a similar relationship between 91 perceived neighborhood stress and poverty and executive functioning exists among children who may have a different awareness of safety and financial concerns within their neighborhood. While the relationship between direct maltreatment, violence, and violence with Theory of Mind and executive functioning is well understood, less research has been devoted to understanding whether more distant exposure to violence, such as in one's neighborhood, also is correlated with lower performance on these types of tasks.

Although little research has explored the relationship between diverse linguistic exposure and Theory of Mind directly, several studies address the connection between exposure to non-native languages and better communicative ability in early childhood, either in perspective taking or imitation (Fan, 2015; Howard, 2014; Liberman, 2017). These findings, in conjunction with findings demonstrating that bilingualism is correlated with higher Theory of Mind ability, suggest a possible link between diverse linguistic experiences and Theory of Mind, even when children do not adopt these second languages themselves. Hence, we are interested in exploring if being exposed to people who speak languages other

than children's native language whether in their neighborhood or social network is correlated with enhanced Theory of Mind.

The present study seeks to bridge the gap between the existing research on predictors of Theory of Mind and predictors of other social-cognitive skills—especially executive functioning—in hopes of identifying additional factors within one's early childhood social network and neighborhood environments that are correlated with Theory of Mind performance. Specifically, it explores the relations, if one exists, between children's zip code, their social network, and their Theory of Mind development. In this study, I aim to investigate two sets of questions:

Set 1: How do the demographics of a child's zip code relate to their Theory of Mind 115 development? To be precise, how are neighborhood linguistic diversity, population density, 116 median household income, and violent crime rate related to children's performance on 117 Theory of Mind tasks? I predict that children with more Network Linguistic Entropy will 118 perform better on the Theory of Mind tasks based on previous literature identifying social 119 and cognitive advantages to additional language exposure (Fan, 2015; Howard, 2014; 120 Liberman, 2017). Additionally, I predict increased neighborhood crime rate will predict lower 121 Theory of Mind performance while increased median household income will predict higher 122 Theory of Mind performance based on research identifying a negative correlation between 123 violence and poverty exposure with other aspects of children's social and cognitive development (Burack, 2006; Cicchetti, 2003; O'Reilly, 2015; Raver, 2013).

Set 2: How do the demographics of a child's social network relate to their Theory of
Mind development? Specifically, how are social network size and linguistic diversity related
to children's performance on Theory of Mind tasks? I predict that increased social network
linguistic diversity will predict higher Theory of Mind performance. This question and
complementary hypothesis are likewise inspired by research demonstrating the relationship
between diverse linguistic exposure, perspective taking, and social learning (Fan, 2015;

Howard, 2014; Liberman, 2017). While this research demonstrates how a child's neighborhood can potentially improve Theory of Mind, this study investigates whether an effect exists when members of a child's household or social network at large speak multiple languages.

Overall, the goal of this study is to identify relations between children's external environments, as defined as their neighborhood and social network, and their Theory of Mind development during the preschool years. This is motivated by a desire to better understand individual variation in Theory of Mind development in hopes of supporting children's social understanding and development.

141 Methods

To address this question, I collected data on 64 participants recruited through the
Infant Learning and Development Laboratory. Due to the ongoing COVID-19 pandemic, no
in-person testing occurred. Instead, all behavioral tasks were conducted over Zoom. The
parent-report measures were administered through Qualtrics, an online platform for
anonymous surveys.

147 Participants

Participant ages ranged from 54.0 months to 70.9 months with a mean age of 58.25
months or 4 years, 10 months (see Figure 1). Thirty-four females and 30 males participated
in the study, of which 56 attended of school or daycare at the time of testing. 38 participants
were European, six were Hispanic/Latino, six were Asian, four were Black or African
American, nine reported more than one race or ethnicity, and one participant selected
"Other" (see Figure 2). Out of the 64 participants, 34 had at least one parent who had
completed Post-Graduate education (see Figure 3). All participants were native English
speakers. The majority of participants reside in the Greater Chicago area although the study
was conducted virtually and included participants throughout the United States Figure 4.

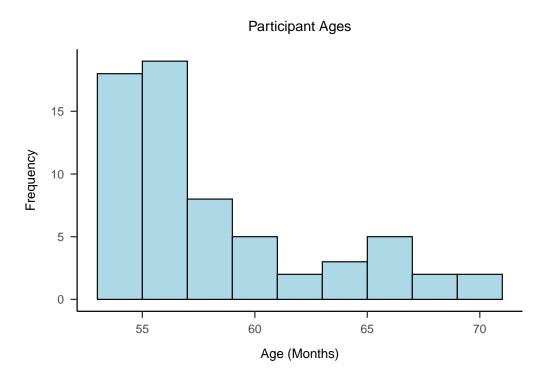


Figure 1. Histogram of Participant Age in Months

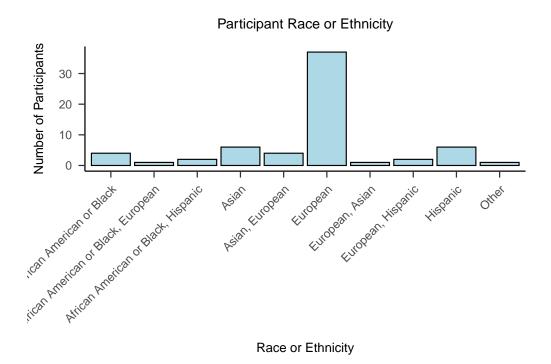


Figure 2. Participant Race/Ethnicity Bar Graph

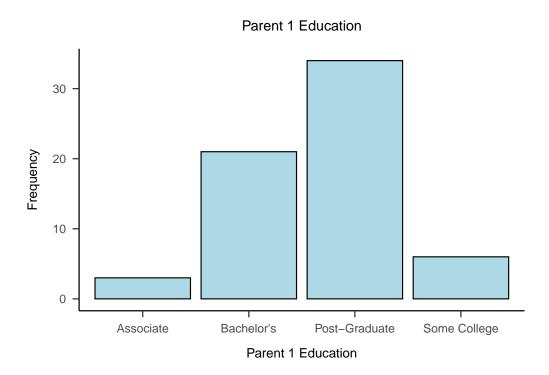
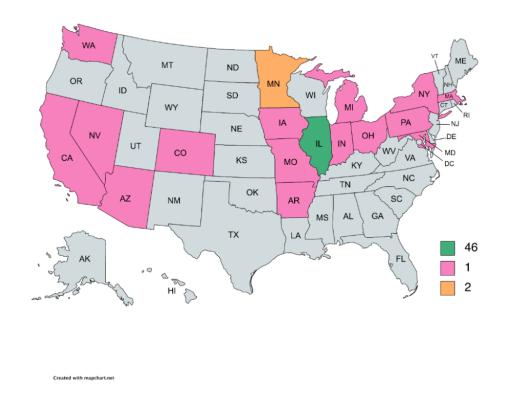


Figure 3. Histogram of Parent 1 Education Level



 $Figure \ 4$. Map of Participant States of Residence

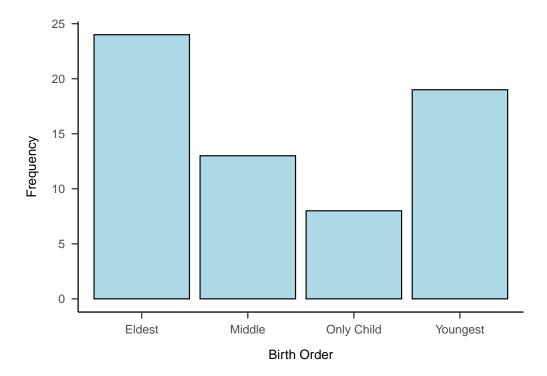


Figure 5. Histogram of Participant Birth Order

Birth order data were also collected (see Figure 5).

58 Procedure

The behavioral tasks were conducted over Zoom using Wellman and Liu (2004). In this 159 study, participants are asked to perform a Diverse Desires task, Diverse Beliefs task, 160 Knowledge Access task, Contents False Belief task, and a Real-Apparent Emotions task over 161 Zoom with a researcher using a slideshow presentation. For an overview of this presentation, 162 see Figure 6. These questions ask children to infer what others want, know, and feel and how 163 they will act in accordance. For example, the Knowledge Access task asks children to infer if 164 the character knows what is inside the box when only the child, but not the character, has 165 seen the puppy toy inside. A child received a score of 1 if they infer that the character did 166 not know what was inside the box and a score of 0 if they inferred he did know. 167

The parent-report measures were administered through Qualtrics. In the consent form,
parents were asked to provide information regarding their child's sex, race and ethnicity,

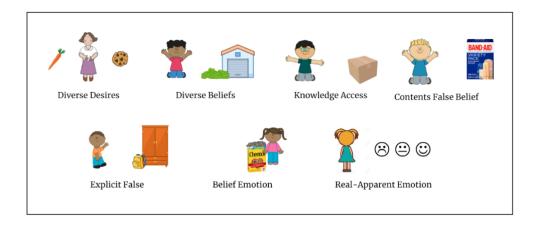


Figure 6. Slides shown to participants over Zoom for each task within the behavioral measure

birth order, native language, additional languages, and school enrollment. Parents also provided their own race and ethnicity, spoken languages, education level, and occupation. In order to measure parental perceptions of their children's Theory of Mind skills, they filled out The Children's Social Understanding Scale which asks about their children's understanding of beliefs, knowledge, perception, desires, intentions, and emotions (Tahiroglu, 2014).

Additionally, information on children's social networks was acquired through The Child 175 Social Network Questionnaire developed by Burke, Brezack, and Woodward (2022). This 176 Questionnaire asks about who children see on a regular basis. Parents then provided 177 demographic information on each of these "alters" (Burke, Brezack, & Woodward, 2022; 178 Robins, 2015). We determined both the size (measured as the number of alters) and the 179 diversity (the "measure of homophily the child shares with the network") of each child's 180 social network using R, a program for statistical coding (Burke, Brezack, & Woodward, 2022, 181 p. 19; R Core Team, 2021). 182

Neighborhood measures come from children's zip codes as reported by their caregivers.

Information on each zip code's median household income and population density is

extrapolated from *Zipdatamaps - Interactive ZIP Code Maps and Data* (n.d.), a website that

provides demographics and statistics for United States zip codes. Violent crime rate

information comes from *Crime by ZIP Code* (n.d.) and includes the rate of violent crimes

per capita in each zip code. Linguistic diversity data are sourced from the *Language Map Data Center* (n.d.) (2015). Linguistic diversity is calculated as the proportion of residents

who speak a language other than English compared to the total number of residents.

Data analysis

We used R (Version 4.1.0; R Core Team, 2021) and the R-packages dplyr (Version 1.1.0; Wickham, François, Henry, Müller, & Vaughan, 2023), forcats (Version 0.5.1; Wickham, 2021), ggplot2 (Version 3.3.6; Wickham, 2016), kableExtra (Version 1.3.4; Zhu, 2021), papaja (Version 0.1.1; Aust & Barth, 2022), purrr (Version 0.3.4; Henry & Wickham, 2020), readr (Version 2.1.2; Wickham, Hester, & Bryan, 2022), stringr (Version 1.4.0; Wickham, 2019), tibble (Version 3.1.8; Müller & Wickham, 2022), tidyr (Version 1.2.0; Wickham & Girlich, 2022), tidyverse (Version 1.3.2; Wickham et al., 2019), and tinylabels (Version 0.2.3; Barth, 2022) and JASP Team (2023). JASP (Version 0.17.1) for all our analyses.

200 Results

201 Behavioral Theory of Mind

Children's performance on D. Wellman H. M. and Liu (2004) followed a bell curve with a mean score of 5.30 (SD = 1.58, range = 1.00-8.00) as shown in Figure 7.

204 Parent-Report Theory of Mind

Parents reported a mean score of 3.28 (SD = 0.35, range = 1.00-4.00) for their children, a score appropriate for their age, as reported in Tahiroglu (2014). The data followed a normal distribution as shown in Figure 8. One participant did not complete this survey for a total of 64 participants, as reported above.



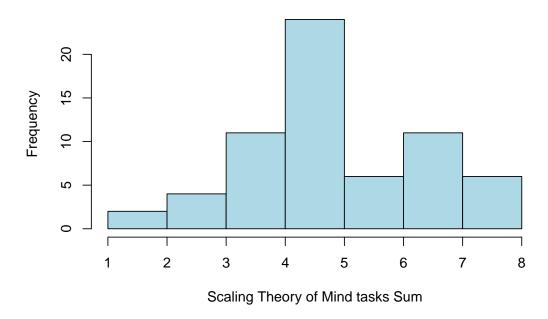
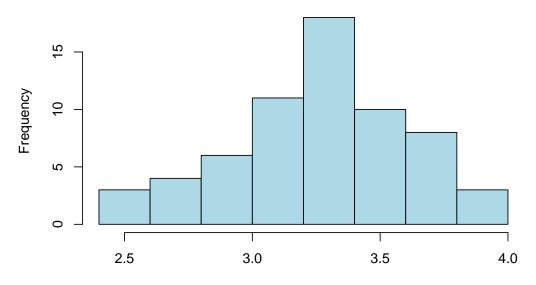


Figure 7. Scaling Theory of Mind tasks Sum Histogram

Parent-Report Theory of Mind



The Children's Social Understanding Scale Average Score

Figure 8. The Children's Soocial Understanding Scale Average Score Histogram

Behavioral Measure vs. Parent-Report Theory of Mind

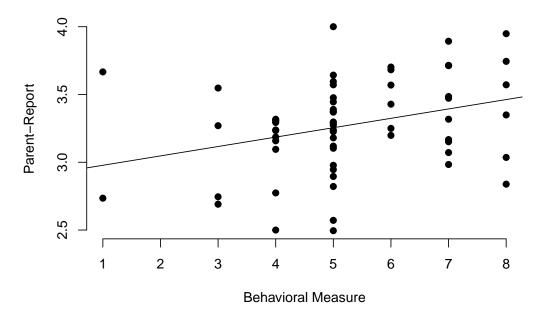


Figure 9. Correlation between Behavioral Measure and Parent-Report Theory of Mind

209 Overall Theory of Mind

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In order to assess the accuracy of parent perceptions of their children's Theory of Mind abilities, children's average score on The Children's Social Understanding Scale was run in a Pearson's r with their Scaling Theory-of-Mind tasks sum. Figure 9 shows the results of this analysis. These were correlated with a highly statistically significant p-value of .011 and a correlation coefficient of .32. Due to the highly significant correlation between measures and having several participants not complete each behavioral task, all following analyses will utilize the Children's Social Understanding Scale average as the measure of children's Theory of Mind ability. See Table 1 for participant scores on each measure.

8 Child Demographics and Theory of Mind

Age in months was significantly correlated with Theory of Mind performance with a correlation coefficient of .28—indicating a slight positive correlation (see Figure 10). The correlation between children's utilization and exposure to languages in addition to English, coded as "Other Languages," was also positively correlated with Theory of Mind

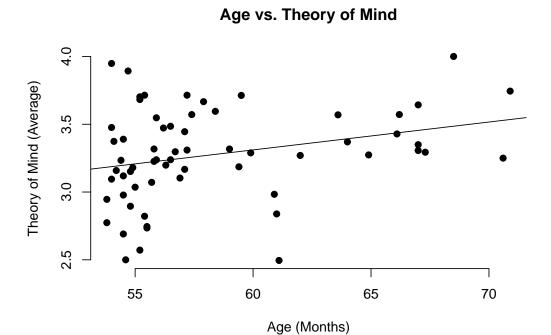


Figure 10. Correlation between Age and Theory of Mind

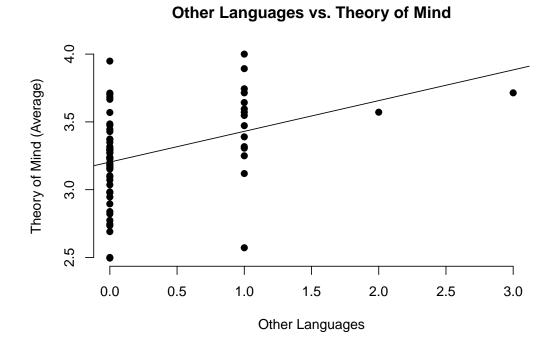


Figure 11. Correlation between Exposure to Other Languages and Theory of Mind

performance. This was significant with a p-value of .002 and a correlation coefficient of .39

(see Figure 11). Birth Order was trending toward a positive correlation with Theory of Mind

performance with youngest siblings performing slightly higher.

Neighborhood Factors and Theory of Mind Violent Crime Rate vs. Theory of Mind

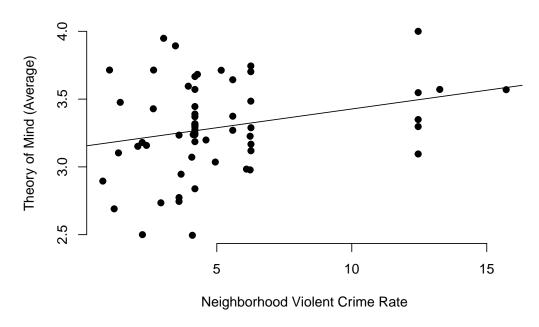


Figure 12. Correlation between Neighboorhood Violent Crime Rate and Theory of Mind

One neighborhood measure was correlated with Theory of Mind with statistical significance. Violent Crime Rate had a modest positive correlation (r = .27) with participant's Theory of Mind score with a statistically significant p-value of .038 (see Figure 12.) This contradicts the hypothesis that crime rate would be negatively correlated with children's development of Theory of Mind. In fact, it suggests that children in areas with higher rates of violent crime actually performed slightly better on the Theory of Mind measure.

234 Social Network Factors and Theory of Mind

Network Linguistic Entropy was correlated with participant's mean score on Children's Social Understanding Scale with a correlation coefficient of .24 and a marginally significant

Network Linguistic Entropy vs. Theory of Mind

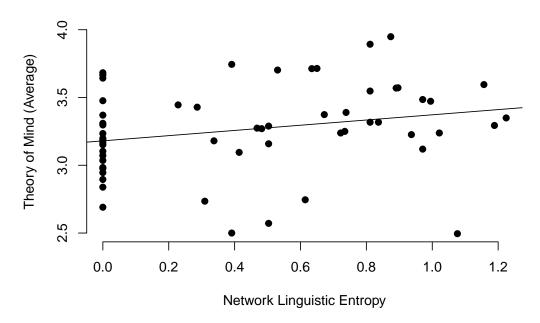


Figure 13. Correlation between Social Network Linguistic Entropy and Theory of Mind

p-value of .076 (see Figure 13). Social Network Size and Network Race Entropy were both slightly positively correlated with children's performance on the Theory of Mind measure although neither correlation was statistically significant.

240 Discussion

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Exposure to other languages was marginally correlated with Theory of Mind performance. These findings are congruent with existing literature on the positive correlation between bilingualism and Theory of Mind but also suggests that exposure to other languages under the threshold of bilingualism is correlated with Theory of Mind (Yu, Kovelman, & Wellman, 2021).

The positive correlation between Violent Crime Rate and Theory of Mind performance counters research demonstrating a relationship between violent crime and diminished social cognitive development (Burack, 2006; Cicchetti, 2003; Muñoz, 2020; O'Reilly, 2015). A potential explanation for this is that perhaps caregivers in areas with prevalent violent crime

consequently discuss the issue of violent crime more often with their children. These
conversations may include discussion of why people break laws and commit violent acts
contrary to what children themselves are taught to do. Such conversations may result in
children grappling with the knowledge that not everyone knows what they know and act in
different ways then them, perhaps due to difficult circumstances children may be taught to
empathize with.

Limitations to this study largely fall under the category of sampling. As discussed in
the methods portion, the children in this study had parents with high levels of educational
attainment as compared to the average U.S. child. Similarly, most children within the
sample live in the surrounding Chicago area as a result of previous in-person testing.
Therefore, a large portion of the children reside in urban communities that may vary from
rural and suburban communities in key aspects such as population density, violent crime
rate, and median household income.

Future research can further tease apart questions raised by these findings. For example,
the majority of participants only heard English or English and one other language.
Therefore, participants' "Other Languages" variables were only coded as whether or not they
were exposed to a non-English language. Through targeted recruitment, future studies could
address whether the number of non-English languages children are exposed to are correlated
with Theory of Mind or if the presence of any non-English language is related to improved
Theory of Mind performance. Additionally, the degree of exposure could be measured.
Likewise, which non-English language children are exposed to can be coded in order to
determine if exposure to different non-English languages have different respective
relationships with Theory of Mind.

Additionally, the positive correlation between Violent Crime Rate and Theory of Mind performance could be addressed with more depth in future research. For example, additional studies could be conducted that measure children's awareness of crime occurring in their neighborhood as well as how often it comes up in conversation. Researchers could also investigate how these conversations are addressed by caregivers.

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Table 1

Theory of Mind Scores by Participant

Parent Report	Behavioral Measure
3.714286	7
3.571429	8
3.288889	5
3.167460	7
3.484921	7
3.595238	5
3.702381	6
2.745238	3
3.712698	7
2.495238	5
3.226190	5
3.269841	3
3.309524	4
3.317460	4
3.297222	5
3.547619	3
3.445238	5
3.666667	1
3.317460	7
3.186111	4
3.250000	6
3.306349	4
3.369841	5
3.293651	4
3.569444	6
3.273810	5
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